Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 1. (withdrawn): A method for measuring a free insulin receptor α -subunit in blood, wherein the method comprises the steps of:
- (1) contacting a blood sample with an antibody recognizing the insulin receptor α -subunit;
- (2) detecting binding of said antibody to the insulin receptor α -subunit present in blood; and
- (3) determining the amount of free insulin receptor α -subunit in blood based on the level of binding detected between said antibody and subunit.
- 2. (withdrawn): The method of claim 1, wherein the antibody recognizing the insulin receptor α -subunit is a first antibody that is bound to a solid phase or comprises a label that can be bound to a solid phase, and the method comprises the step of detecting the insulin receptor α -subunit bound to the first antibody by binding a second antibody recognizing the insulin receptor α -subunit.
- 3. (withdrawn): A reagent for measuring a free insulin receptor α -subunit in blood, wherein the reagent comprises an antibody recognizing the insulin receptor α -subunit.
- 4. (previously presented): A method for diagnosing diabetes, wherein the method comprises the steps of:
- a) measuring the amount of a free insulin receptor α -subunit in a biological sample of a subject;
- b) comparing the amount of the free insulin receptor α -subunit with that of a control; and

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- c) determining the subject to have diabetes when the amount of free insulin receptor α -subunit in the biological sample of the subject is greater than that of the control.
- 5. (previously presented): The method for diagnosis of claim 4, wherein the biological sample is a blood sample.
- 6. (previously presented): The method for diagnosis of claim 5, wherein the amount of the free insulin receptor α -subunit is measured by the method of claim 1.
- 7. (withdrawn): A reagent for diagnosing diabetes, wherein the reagent comprises an antibody recognizing a peptide comprising the amino acid sequence of an insulin receptor α-subunit.
- 8. (withdrawn): A method for diagnosing cancer, wherein the method comprises the steps of:
- (a) measuring the amount of a free insulin receptor α -subunit in a biological sample of a subject;
- (b) comparing the amount of the free insulin receptor α -subunit with that of a control; and
- (c) determining the subject to have cancer when the amount of the free insulin receptor α -subunit in the biological sample of the subject is greater than that of the control.
- 9. (withdrawn): The method for diagnosis of claim 8, wherein the biological sample is a blood sample.
- 10. (withdrawn): The method for diagnosis of claim 9, wherein the amount of the free insulin receptor α -subunit is measured by the method of claim 1.

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11. (withdrawn): A reagent for diagnosing cancer, wherein the reagent comprises an antibody recognizing a peptide comprising the amino acid sequence of an insulin receptor α -subunit.